

## Band-Pass Filter for the 80 MHz Band

### DESCRIPTION

- The BPF 4/4 is a 4-helical resonator band-pass filter with aperture-coupling between the resonators.
- This filter can be used as a preselector to protect a receiver against interference from transmissions out of the pass-band, or it can be used to reduce spurious output from a transmitter with up to 50 W of output power.
- The BPF 4/4-C-version fits directly into our receiver multicouplers PRO-AR4G-N... etc.
- The filter can be tuned within the entire 66 - 88 MHz band. It has very small dimensions owing to the use of helical resonators. Careful design and choice of materials ensure reliable operation over a wide temperature range.
- The housing is made of extruded aluminium, the chassis of steel, and teflon insulation has been used in the coaxial cables and in the connectors.
- The filter is coated with black vinyl to prevent corrosion.



### SPECIFICATIONS

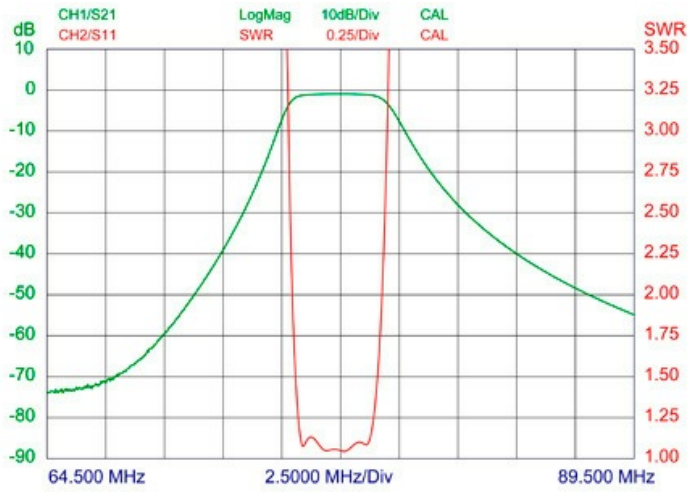
Electrical	
Model	BPF 4/4
Filter Type	Band-Pass Filters
Frequency	66 - 88 MHz
Max. Input Power	50 W
Insertion Loss	≤ 1.4 dB (typ. 1.2 dB)
Impedance	50 Ω
Reject Attenuation	See curves
VSWR	< 1.5:1
Bandwidth	3 - 4 MHz
Mechanical	
Connection(s)	N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request)
Dimensions	Approx. 165 x 104 x 33 mm / 6.50 x 4.10 x 1.30 in.
Weight	Approx. 0.5 kg / 1.10 lb.
Environmental	
Operating temperature range	-30 °C to +60 °C

### ORDERING

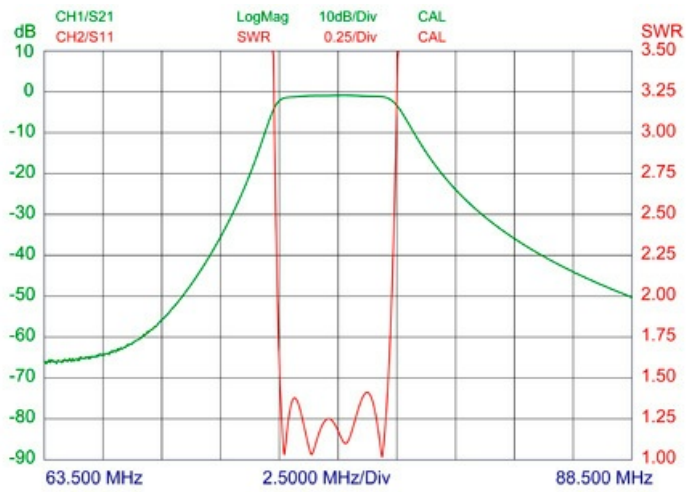
Model	Product No.
BPF 4/4-N(f)	200000887
BPF 4/4-4-N(f)	200002757

TYPICAL RESPONSE CURVES

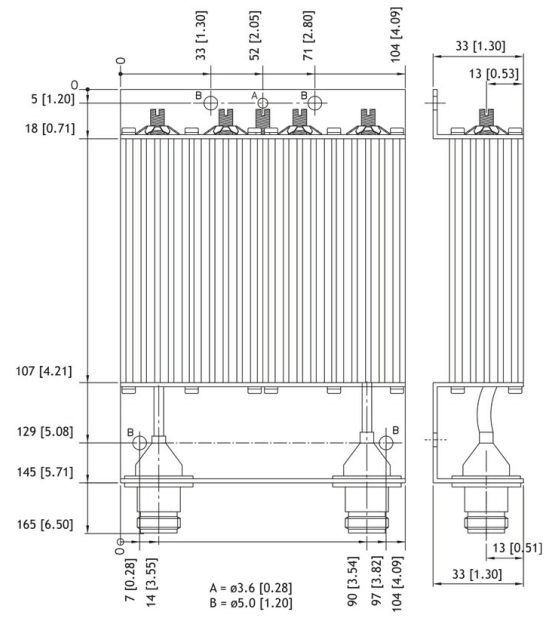
BPF 4/4



BPF 4/4-4



MOUNTING DETAILS



All dimensions are given in mm [in.]

